Defense Acquisition University

Defense Acquisition University

AT&L Knowledge Management System Overview

November 2007

Objectives

- A quick look at DAU's transformation from the traditional classroom model to 24/7 support
- Overview of what learning and job support assets are available FREE from DoD's AT&L Knowledge Management System
- What's available FREE specifically from DAU?
- Future systems of interest – BPCh.
- CoPs and Assets from the workforce in the Acquisition Community Connection
- What's on the horizon

The Challenge/Opportunity/DoD-DAU's Mission:

Provide practitioner training, career management, and services to enable the Acquisition, Technology, and Logistics community to make smart business decisions, and deliver timely and affordable capabilities to the warfighter

Integrated Defense Acquisition, Technology, & Logistics Life Cycle Management Framework

Draft ver. 4.7. May 21, 2004

This chart is a classroom aid for Defense Acquisition University students. It provides a notional illustration of the interactions among the three major decision support systems used to develop, produce, and field a system for national defense. Defense acquisition is a complex process, with many more activities than shown here, and many concurrent processes that cannot be properly displayed on a two-dimensional chart. Supporting information is on the back of this chart. For more detailed information see the Acquisition, Technology & Logistics Knowledge Sharing System (http://akss.dau.mil).

Three DOD Decision Support Systems Effective Interaction is Essential

The Milestone Decision Authority may authorize entry into the acquisition process at any point, consistent with phase specific entrance criteria and statutory requirements

Concept Refinement Phase — Refine initial concept. Develop Technology Development Strategy

Technology Development Phase — Reduce technology risk and determine appropriate set of technologies to integrate into a full system.

System Development & Demonstration Phase — Develop a system or increment of capability; reduce integration and manufacturing risk; ensure operational supportability; reduce logistics footprint; implement human systems integration; design for producibility; ensure affordability and protection of critical program information; and demonstrate system integration, interoperability, safety, and utility.

Production & Deployment Phase — Achieve operational capability that satisfies mission needs.

Operations & Support Phase — Execute a support program that meets operational support performance requirements and sustains the system in the most cost-effective manner over its total life cycle. Dispose of the system in the most cost-effective manner at the end of its useful life.

Decision Points/Milestones: MS A | MS B | DRR | MS C | FRP DR

Low-Rate Initial Production | Full-Rate Production/Deployment | Sustainment | Disposal

IOC | FOC

Validated and approved CDD and CPD for each increment of an evolutionary acquisition

Increment II | Increment III

Joint Capabilities Integration & Development System (need driven)

ICD | Draft CDD | CDD | CPD

Threshold/objective tradeoffs - Revised Performance Attributes

KPPs | Net-Ready KPP | System Threat Assessment | J-6 Interoperability & Supportability Cert | Service/JROC Validation & Approval | Information Support Plan

Joint Functional Concept | Joint Integrating Concept | Integrated Architecture

Functional Area Analysis | Functional Needs Analysis | Joint Operating Concepts | Joint Functional Concepts | Joint Integrating Concepts | Integrated Architectures

DOTMLPF: Materials Changes (CJCSI 3170.01) | Ideas for Materiel Approaches | Analysis of Materiel Approaches | DOTMLPF Changes (CJCSI 3180) | Alternative Materiel Solutions (Alternatives)

Functional Solution Analysis | Post Independent Analysis

Oversight & Review

DAB/ITAB/MD | ADM | Exit Criteria Met | Clinger-Cohen Act - Compliance

AoA Plan | AoA

Contracting

Study Contracts | Acq Plan | Source Selection Plan | Draft RFP | RFP

RFP - Request for Proposal

Major Products

Preliminary Integrated Architecture | Best Materiel Approach(es) | Preferred System Concept | Tech Demos | System Performance Spec | Prototypes/ Engineering Dev Models | Initial Production Baseline | Low-Rate Initial Production Systems | Final Production Baseline | Full-Rate Production Systems

Technology Development Strategy • Cost, schedule & performance goals & exit criteria for first spiral • Test Plan

Technology Development Contract | Integrated Baseline Review | System Development & Demonstration Contract | LRIP Contract | Production Contract

Post Production Software Support Contracts

Logistics/ Sustainment

Define Supportability Objectives | Evaluate Product Support Capabilities | Develop Initial Product Support Strategy | Product Support Plan | Demonstrate Product Support Capability | Product Support Package/PBL Implementation | Product Support/PBL Management | Operations & Sustainment

Performance Based Logistics (PBL) Strategy (Preferred Product Support Strategy)

Technical

Systems Engineering | Test & Evaluation | Supportability

CD | A | B | DRR | C | FRP DR

INPUTS | OUTPUTS

Interpret User Needs | Analyze/Assess Concepts Versus Defined User Needs | Develop Concept Performance (& Constraints) Definition & Verification Objectives | Assess/Analyze Concept & Verify System Concept's Performance | Decompose Concept Perf into Functional Definition & Verification Objectives | Assess/Analyze Concept System Versus Functional Capabilities | Decompose Concept Functional Definition into Component Concepts' Assessment Objectives | Assess/Analyze Enabling/Critical Components Versus Capabilities | Develop Component Concepts, i.e., Enabling/Critical Technologies, Constraints & Cost/Risk Drivers

Develop System Perf (& Constraints) Spec & Enabling/Critical Tech &/or Verification Plan | Demo & Validate Sys Concepts & Technology Maturity Versus Defined User Needs | Develop Functional Definitions for Enabling/ Critical Technologies & Associated Verification Plan | Demo System Functionality Versus Plan | Decompose Functional Definitions into Critical Component Definition & Tech Verification Plan | Demo Enabling/ Critical Technology Components Versus Plan | Develop System Concepts, i.e., Enabling/Critical Technologies, Update Constraints & Cost/Risk Drivers

Refine Interpret User Needs | Refine System Performance Specs & Environmental Constraints | Develop System Functional Specs & System Verification Plan | Evolve Functional Performance Specs into CI Functional Design (s) Specs and CI Verification Plan | Evolve CI Functional Specs into Product (Build to) Documentation and Inspection Plan | Fabricate, Assemble, Code to "Build-to" Documentation | Individual CI Verification DT&E | Combined DT&E/LFT&E to Demonstrate System to Specified User Needs & Environmental Constraints | System DT&E, LFT&E & OA to Verify System Functionality & Constraints Compliance to Specs

Independent IOT&E | Full-Up System Level LFT&E | DTC Interoperability Certification Testing | J-6 Interoperability & Supportability Validation | FOT&E

Test Results • Exit Criteria • AEPB • CPD • SEP • Input to: • Cost/Manpower Est.

Analyze Deficiencies To Determine Corrective Actions | PCA | Verify & Validate Production Configuration | Modify Configuration Hardware/Software/Specs To Correct Deficiencies

Service Use Data • Failure Reports • Discrepancy Reports • SEP

Monitor and Collect In-Service Use Data | Analyze Data to Determine Root Cause | Determine System Risk/ Hazard Severity | Develop Corrective Action | Assess Risk of Improved System | Implement and Field | Integrate & Test Corrective Action

Process Change - Hardware/Support Materiel Change

Data for In-Service Review • Input to CDD for next spiral • Failure Reports • Modifications/upgrades to fielded systems • SEP

Disposal

Most Acceptable | Least Acceptable

Pre-IOC & Post IOC Supportability Assessments

Economic Analysis (MAIS Only) | CARD (Designated Programs) | POE | CCA | ICE | Affordability Assessment

Cost Acronyms
CARD - Cost Analysis Requirements Description
CCA - Component Cost Assessment
ICE - Independent Cost Estimate
MAIS - Major Automated Information System
POE - Program Office Estimate
RDT&E - Research, Development, Test & Evaluation

Full Funding in FYDP

LFT&E Waiver, if appropriate

Oversight & Review Acronyms
ADM - Acquisition Decision Memorandum
AoA - Analysis of Alternatives
APB - Acquisition Program Baseline
CA - Concept Decision
DAB - Defense Acquisition Board
DRB - Design Readiness Review
FRP - Full Operational Capability
FRP DR - Full-Rate Production Decision Review
ITAB - Information Technology Acquisition Board
LRIP - Low Rate Initial Production
MAIS - Major Automated Information System
MDA - Milestone Decision Authority

Purpose of LRIP:
• Establish Production Base
• Ramp to Production Rate
• Test Production for IOT&E
• Train Initial Operational Capability

Defense Acquisition System (event driven)

PMO Budget Estimate | PMO POM Input

Cost $ | Cost Estimation Methods: Analogy | Parametric | Engineering | Actual Costs

Types of Funds: RDT&E – Advanced Technology Development | RDT&E – Adv Component Dev & Prototypes | RDT&E – Systems Development & Demonstration | RDT&E – Management & Support | Procurement | Operations & Maintenance

Appropriated Funds To Support Contracts

Planning, Programming, Budgeting, & Execution

Military Departments & Defense Agencies | OSD & Joint Staff

August

POM/Budget Formulation PCP/BCP Prep | POM/Budget Submit PCP/BCP Submit

September - November

Joint Planning Document | Strategic Planning Guidance Off Year Optional | Joint Programming Guidance Off Year Optional | ISSUES | SLRG Reviews | PDM(s)

Planning, Programming, Budgeting & Execution Acronyms
BCP - Budget Change Proposals
FYDP - Future Years Defense Program
MBI - Major Budget Issues
OMB - Office of Management & Budget
PBD - Program Budget Decision
PCP - Program Change Proposals
PDM - Program Objectives Memorandum
SLRG - Senior Leadership Review Group

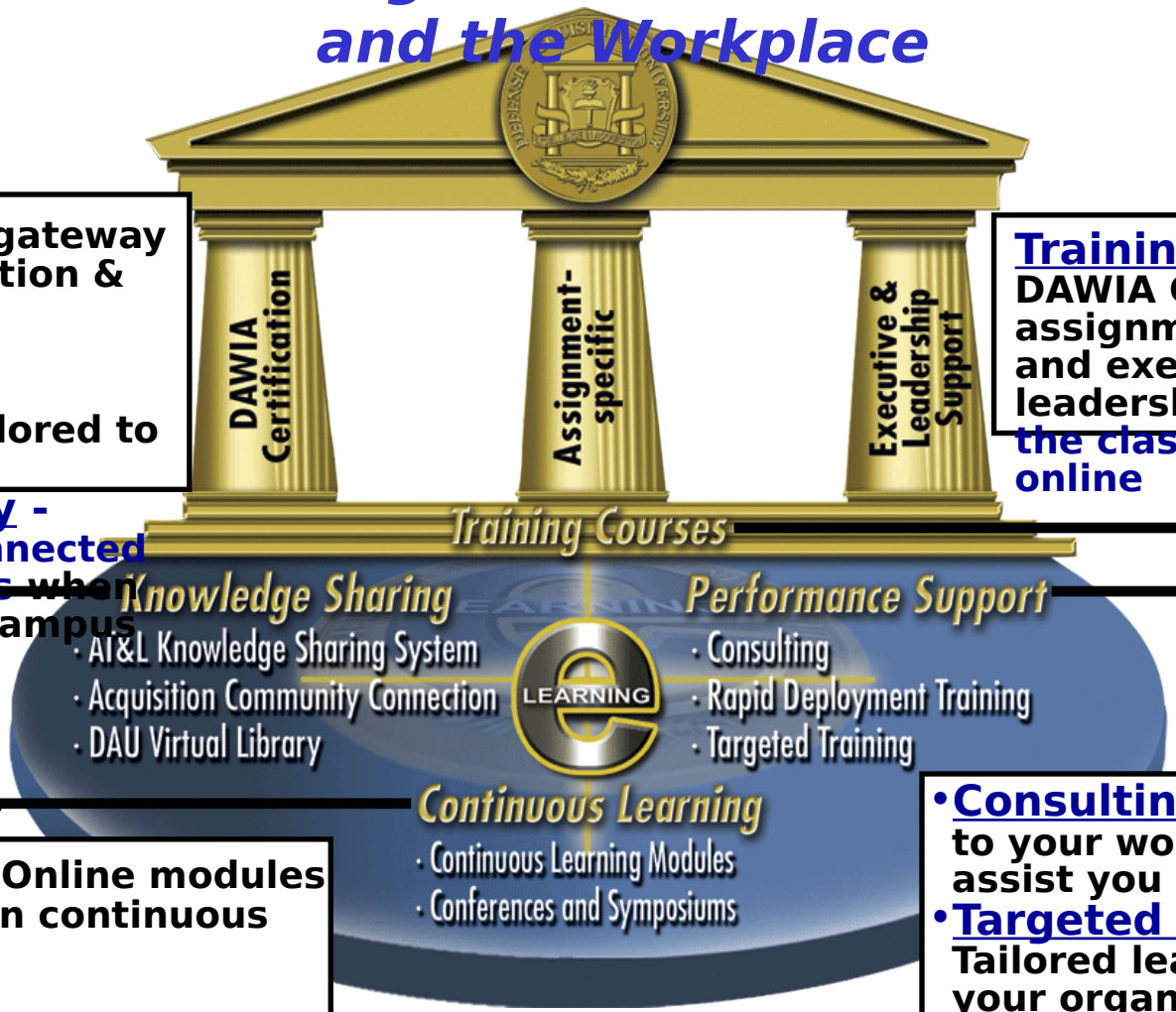
DoD Testimony | DoD Appeals | Allocatio | Apportionment

The Problem/Opportunity - DoD's Big "A"cquisition Systems and Processes

The Acquisition Warrior

AT&L Performance Learning Model

24/7 Learning Assets for the Classroom and the Workplace



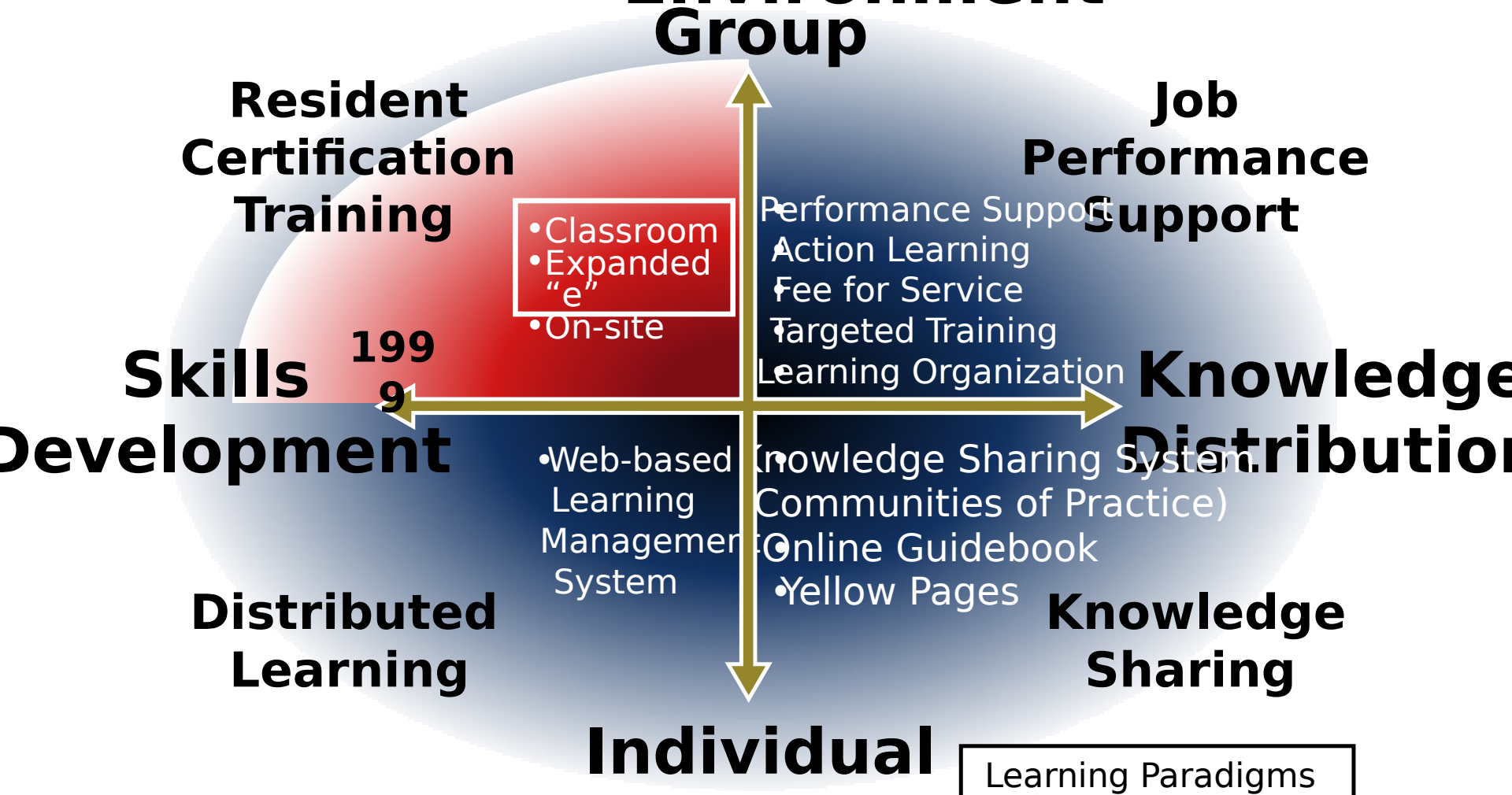
- **AKSS** - Online gateway to AT&L information & tools
- **ACC** - Online collaboration communities tailored to your needs
- **Virtual Library** - Keeping you connected to research tools when you are not on campus

Training Courses - DAWIA Certification, assignment-specific, and executive & leadership courses – in the classroom and online

- **CL Modules** - Online modules to help you earn continuous learning points
- **Conferences**
  - PEO / SYSCOM
  - Business Manager
  - DAU Acquisition Community

- **Consulting** - We come to your workplace to assist you
- **Targeted Training** - Tailored learning for your organization
- **RDT** - On-site and online training on the latest AT&L policies

Framing the Learning Strategy for an Agile Learning Environment



AT&L Knowledge Management System

Central Repository

- Home for Policies and References
- Defense Acquisition Guidebook
- AT&L Integrated Framework Chart (IFC)
- Ask A Professor

DoD & Industry Best Practices

- Stand alone practices with evidence resource
- Integration with ACC CoPs for collaboration/input on best practices
- Included in enterprise search index

Enterprise Search System

- Stand-alone search for workforce
- Integrated search for AKSS, DAU Homepage, Intranet
- Searches open areas of ACC

Collaborative Tool Where the Workforce Contributes Knowledge and Interacts to Share "Know-How"

- Communities of Practice
- Special Interest Areas
- Limited Access Workspaces
- Workflow Learning Tools
- IFC Templates
- Defense Acquisition Guidebook FY-08
- Web Enabled JCIDS FY-08

DoD AT&L Knowledge Sharing System

Defense Acquisition University

ACQuire

SEARCH

FAR/DFARS

GSA & Hill FARSITE

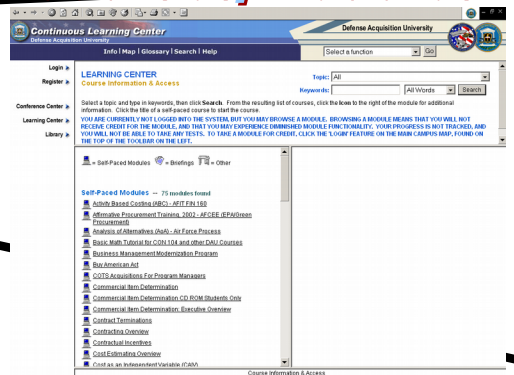
New AT&L Policy

Acquisition Policy Center
With JCIDS, 5000, PPBES

Hot Topics

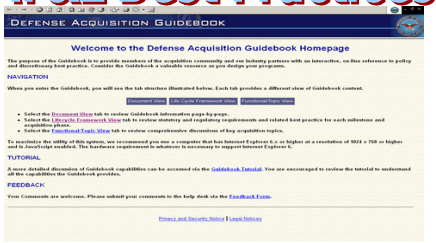
AKSS

Courses/Modules


Continuous Learning Center
Defense Acquisition University
LEARNING CENTER
Course Information & Access
Self-Paced Modules
Activity Based Costing (ABC) - AFIT FIN 160
Affirmative Procurement Training, 2002 - AFCEE (EPA/Green Procurement)
Analysis of Alternatives (AoA) - Air Force Process
Basic Math Tutorial for COIN 104 and other DAU Courses
Business Management Modernization Program
Buy American Act
COTS Acquisitions For Program Managers
Commercial Item Determination
Commercial Item Determination CD ROM Students Only
Commercial Item Determination: Executive Overview
Contract Terminations
Contracting Overview
Contractual Incentives
Cost Estimating Overview

Training and Continuous Learning Centers

AT&L Best Practices

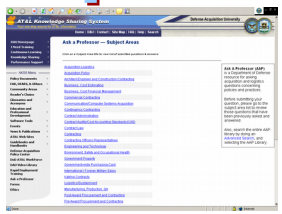


Defense Acquisition Guidebook
Integrated Framework Chart

Guidance and Experts

Career Field and Business Process

Experts



Ask-A-Professor

Gateway to Policy, Processes, Tools and Experts

AU GLOBAL TOPS
DAU Homepage
I Need Training
Continuous Learning
Knowledge Sharing
Performance Support

ITE MENU
Help
Federal Acquisition Institute
Student Services
Orientation to E-Learning
Student Support Tools
About
Login

UICK LINKS
Apply for Courses
CLC
Tutorials
AKSS

DAU Continuous Learning - Browse Mode

You are in browse mode. You will be able to browse Continuous Learning modules, for NO CREDIT. If you wish to take a module FOR CREDIT CLICK HERE.

Continuous Learning Module categories

- **CLB** - Business
- **CLC** - Contracts
- **CLE** - Engineering & Technology
- **CLG** - Government Purchase Card Training
- **CLI** - Int'l Armaments & Info Exchange Training
- **CLL** - Logistics
- **CLM** - Aquisition & Management
- **SPS** - Standard Procurement System Training
- **FAC** - Federal Acquisition Institute courses and modules
- **External** - Additional continuous learning opportunities offered outside of DAU

- **Note:**Harvard Modules are not available in browse mode. CLICK HERE TO REGISTER
- Select a topic and type in keywords, then click Search. Click the title of a self-paced course to start the course.
- You may contact the DAU HELP DESK at dauhelp@dau.mil or at 1-866-568-6924(Toll Free) or DSN 655-3459.

Topic: All Keywords: Search

All | CLB | CLC | CLE | CLG | CLI | CLL | CLM | FAC | SPS | External

Prefix	Course Name
CLC037	A-76 Competitive Sourcing Overview
FAC030	A-76 Post-Competition Accountability
CLM500	ADL Implementation for Defense Acquisition Professionals

Login

You may contact the DAU HELP DESK at dauhelp@dau.mil or at 1-866-568-6924(Toll Free) or DSN 655-3459.

UICK LINKS

Apply for Courses
CLC
Tutorials
AKSS

Topic: All

Keywords:

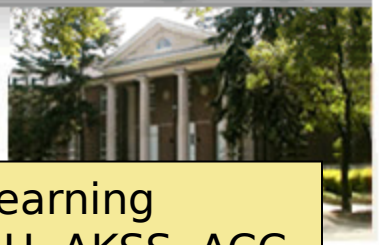
Search

All | CLB | CLC | CLE | CLG | CLI

Prefix	
CLC037	A-76 Competitive Sourcing Overview
FAC030	A-76 Post-Competition Accountability
CLM500	ADL Implementation for Defense Acquisitio
CLB014	Acquisition Reporting Concepts and Policy
CLC102	Administration of Other Transactions
CLM101	Analysis of Alternatives
CLC104	Analyzing Profit or Fee
CLB020	Baseline Maintenance
CLC024	Basic Math Tutorial
CLC125	Berry Amendment
CLB011	Budget Policy
CLL015	Business Case Analysis
CLC027	Buy American Act
CLM025	COTS Acquisition for Program Managers
CLM041	Capabilities Based Planning
FAC007	Certificate of Competency
CLC023	Commercial Item Determination - Executive
CLC020	Commercial Item Determination
CLC131	Commercial Item Pricing
CLM030	Common Supplier Engagement
FAC008	Competition in Contracting Act (CICA)
CLB010	Congressional Enactment
CLC114	Contingency Contracting Officer Refresher

-Out of the over 190 modules available, some topics of particular interest to industry:
- AOA
- Business Case Analysis
- Contractual Incentives
- Cost Estimating
- Defense Distribution
- Designing for Supportability
- DoD eBusiness Environment
- Earned Value Management
- ISO 9000:2005
- Lean 6 Sigma/Lean Enterprise
- Modeling and Simulation
- Performance Based Logistics
- Predictive Analysis and Systems Engineering, QA, Scheduling
- Risk Management
- Scheduling
- Technical Reviews
- Work Breakdown Scheduling

Defense Acquisition University



DAU GLOBAL TOPS
- DAU Homepage
- I Need Training
- Continuous Learning
- Knowledge Sharing
- Performance Support

SITE MENU
- General Info. 1-800-845-7606
- About DAU
- DAU Calendar
- Student Information
- Acquisition Resources
- DoD AT&L Workforce
- Publications
- Alumni Information
- Regions & Campuses

QUICK LINKS
- Apply for Course
- FAQ
- DAU Video Library
- David D. Acker Library
- Strategic Partnerships
- Rapid Training

Webcast/Podcast Center
Browse Search

IN THE SPOTLIGHT

- General Information
- Register for Continuous Learning Modules
- Browse Continuous Learning Modules
- Login - Continuous Learning Modules
- Conferences and Symposiums

nternet Outage

Get to Continuous Learning Modules through DAU, AKSS, ACC, ACQuire homepages, and through top level drop down menu

OSD SBIR Webcast Title and Description

Title: Small Business Innovation Research (SBIR): Tools & Strategies for Program Technology Development

Description: Michael Caccuitto, DoD Assistant Director of Small Business Programs and SBIR Program Manager, will provide an overview of the SBIR Program and offer strategies to leverage the program for technology development in a DAU WebCast on Wednesday, November 14th at 1:00 PM EDT. The DoD SBIR program was $1.14 billion in FY07, funding several thousand technology feasibility and prototype development projects. Learn how to utilize SBIR as a tool across the acquisition program lifecycle for leap-ahead capability or enabling technology development to tap innovation and address program needs.

Registration: Please register at here; each individual viewer should register even if viewing takes place in a group setting. Presentation slides will be available on the DAU Homepage at www.dau.mil, no later than November 12, 2007.

FAQ

JSF Lessons Learned from the PEO

On 15 October 2007, DAU interviewed Rear Admiral Steven Enewold who was the Program Executive Officer for the Joint Strike Fighter (JSF) program, the largest program in DoD history. At the time of the interview the Admiral was just retiring as the Vice Commander of the Naval Air Systems Command. In the video interview, Rear Admiral Enewold shares his JSF experience and lessons learned related to Configuration Steering Boards, Program Stability, Program Planning

NEW ITEMS
- CORE PLUS
- Acquisition of Services Policy
- AT&L Workforce Development Award
- New Partnership between DAU and the University of Missouri –Rolla
- New Partnership between DAU and Alabama A&M University
- New Partnership between DAU and Grantham University
- New Depot Maintenance Training Available
- News Archives...

What's In The Future?

- **Increased Focus on Providing Engaged Learners What They Need at Their Point of Need, through an even more advanced search and discovery "engine".**
- **Web enabling the JCIDS documents and integrating with the DAG**
- **Capturing and Managing ALL DAU Learning Assets, including classroom materials, videos, podcasts, and webcasts**
- **Developing a Big "A" Acquisition Portal as an evolution of the AKSS**
- **Developing an Acquisition Encyclopedia based on the approach used by "Wikipedia"**
- **Investigate the power of "social networking" and Web 2.0 tools in DoD systems**

Center for Simulation, Training and Research

- Designed to facilitate intact, cohort training of acquisition teams
- Will also serve as a research hub within DoD for the use of non-kinetic simulations

Learn. Perform. Succeed.

- Achieved IOC on 3 October 2007
- Phased build-out of capabilities is ongoing
- First cohort training activity planned for 1

DAU G&S Baseline

- **Total of 16 courses using 27 games and sims currently!**

CON 237

CON 260A

GRT 201

BCF 211

BCF 206

Monte Carlo

SAM 201

EWM

DISA ISES NETWARS

ACQ 201B Cassandra

BCF 205 K-ANDY

PQM 201B Lean Sim

LOG 201B LogSim

LOG 235 Business Case Analysis

CON 100 Diversity Card Game

PMT 352B Mind Rover

LOG 210

SYSPARS

COMPASS

CASA

PowerLOG

PFSA

BCF 211

Program Budget

Program Budget Preparation

Budget Exhibits

Program Adjustments

PQM 301

Value Stream Mapping

Performance Based ACQ

Quality Function Deployment

Software Quality Systems

Activity Based Costing

Risk, CMMI & AMP

Six Sigma